



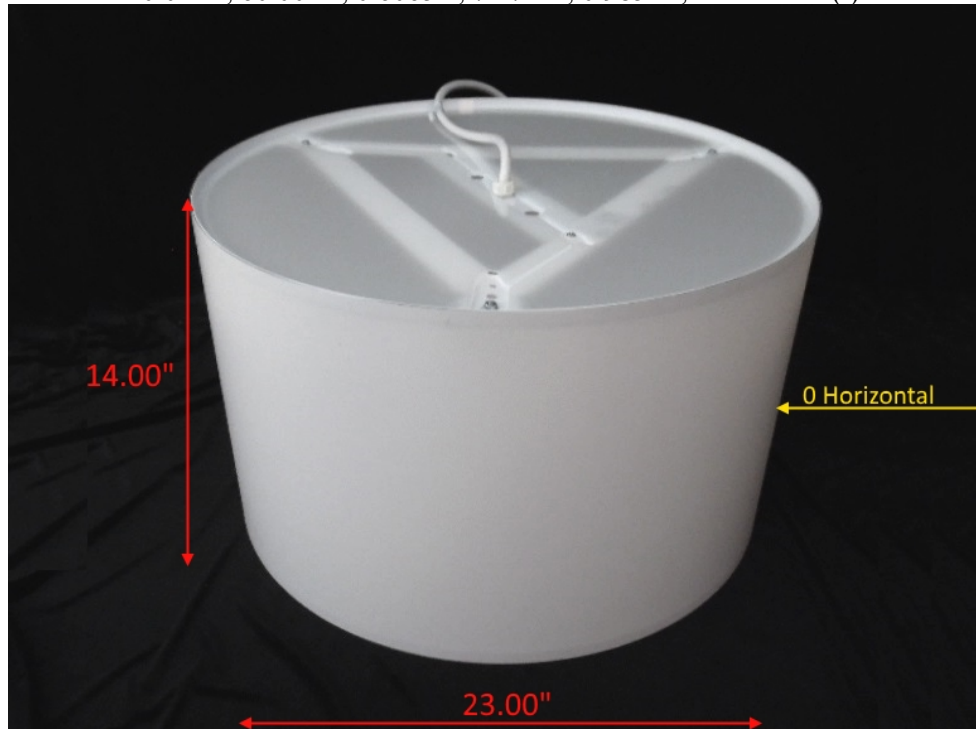
Report of Test

LLIA000901-008

Catalog Number: P52314/F11/D61/L413

Pendant mounted, formed white enamel steel frame with white "lumenate" diffuser, translucent white top and bottom enclosures.

Three white LED modules with clear patterned hemispherical lenses below each.
One ERP ESP050W-1200-42 LED driver and one ERP ESS030W-0620-42 LED driver
120.0Vac, 60.00Hz, 0.6065A, 71.72W, 0.985PF, 12.4%THD(i)



Performance Summary

Total Light Output	4410 lm
Luminaire Power	71.7 W
Luminous Efficacy	61.5 lm/W

PREPARED FOR : Lumetta, Inc, 33 Minnesota Avenue, Warwick, RI 02888, USA



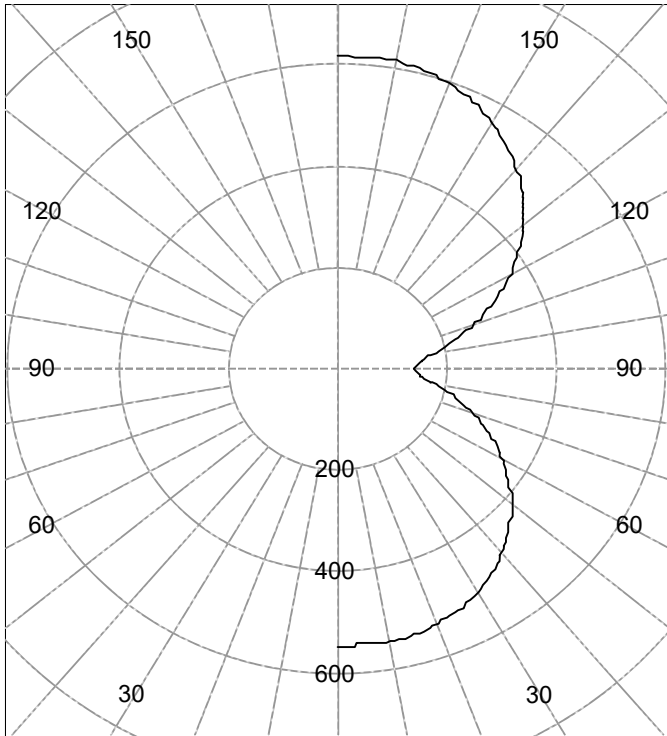
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Legend: All planes - Solid (cd)



(Rotational symmetry)

AVERAGE LUMINANCE (cd / m²)

Gamma	C0
45.0	1312
55.0	1170
65.0	1009
75.0	821
85.0	654

INTENSITY SUMMARY (cd)

Gamma	All Planes	Flux (lm)	Gamma	C0	Flux (lm)
0	545		90	140	
5	545	52	95	152	168
10	545		100	180	
15	541	153	105	221	235
20	534		110	267	
25	523	241	115	314	311
30	508		120	359	
35	490	307	125	401	358
40	467		130	440	
45	441	341	135	476	367
50	412		140	508	
55	379	339	145	536	336
60	343		150	560	
65	304	301	155	580	268
70	264		160	596	
75	222	235	165	608	172
80	182		170	614	
85	151	168	175	616	59
90	140		180	616	

ZONAL FLUX AND PERCENTAGES

Zone	Flux (lm)	%Lamp	%Luminaire
0-30	447	N / A	10.1
0-40	753	N / A	17.1
0-60	1433	N / A	32.5
0-90	2137	N / A	48.5
40-90	1384	N / A	31.4
60-90	704	N / A	16.0
90-180	2273	N / A	51.5
0-180	4410	N / A	100.0

Total Light Output = 4,410 lm

Spacing Criterion:	0-180	1.4
Spacing Criterion:	90-270	1.4

Signed:

Authorized Signatory

Date of test 30-Nov-2017
Date of report 1-Dec-2017



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Intensity (cd) and Flux (lm) data

Gamma	Intensity	Flux	Gamma	Intensity	Flux
0.0	545		90.0	140	
2.5	544		92.5	143	
5.0	545	52	95.0	152	
7.5	545		97.5	163	168
10.0	545		100.0	180	
12.5	543		102.5	200	
15.0	541	153	105.0	221	
17.5	538		107.5	244	235
20.0	534		110.0	267	
22.5	529		112.5	291	
25.0	523	241	115.0	314	
27.5	516		117.5	336	311
30.0	508		120.0	359	
32.5	500		122.5	380	
35.0	490	307	125.0	401	
37.5	479		127.5	421	358
40.0	467		130.0	440	
42.5	455		132.5	458	
45.0	441	341	135.0	476	
47.5	427		137.5	492	367
50.0	412		140.0	508	
52.5	396		142.5	522	
55.0	379	339	145.0	536	
57.5	361		147.5	548	336
60.0	343		150.0	560	
62.5	324		152.5	571	
65.0	304	301	155.0	580	
67.5	284		157.5	589	268
70.0	264		160.0	596	
72.5	243		162.5	603	
75.0	222	235	165.0	608	
77.5	201		167.5	611	172
80.0	182		170.0	614	
82.5	164		172.5	616	
85.0	151	168	175.0	616	
87.5	142		177.5	615	59
90.0	140		180.0	616	



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Coefficients Of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	55	55	55	48
1	96	91	86	82	88	83	79	76	70	67	64	57	55	53	46	44	43	37
2	86	78	71	66	79	72	66	61	60	56	52	49	46	43	39	37	35	30
3	78	68	60	54	72	63	56	50	52	47	43	43	39	36	34	31	29	24
4	71	60	51	45	65	55	48	42	46	40	36	38	33	30	30	27	24	20
5	65	53	44	38	60	49	41	35	41	35	30	34	29	26	27	23	21	17
6	60	47	39	33	55	44	36	30	37	31	26	30	26	22	24	21	18	15
7	55	43	34	28	51	39	32	27	33	27	23	27	23	19	22	18	16	13
8	51	38	30	25	47	36	28	23	30	24	20	25	20	17	20	17	14	12
9	48	35	27	22	44	32	25	21	27	22	18	23	18	15	18	15	13	10
10	44	32	25	20	41	30	23	18	25	20	16	21	17	14	17	14	11	9

For absolute test reports, CUs are expressed as a percentage of total lumen output. Calculations were based on published IES procedures, and are based on the zonal cavity method. Basic assumptions: 1) Room surfaces are lambertian reflectors. 2) Incident flux on each surface is uniformly distributed. 3) The room is spectrally neutral. When luminaires are not evenly distributed throughout the room, or do not exhibit lateral symmetry, CU values may differ from actual performance.

Circle of Light Plot

Height(ft)	Illuminance at Nadir (fc)	Beam Width (across 50% Nadir Illum)	
		0-180	90-270
6.0	15.1	8.32	8.32
8.0	8.5	11.10	11.10
10.0	5.4	13.87	13.87
12.0	3.8	16.64	16.64
14.0	2.8	19.42	19.42
16.0	2.1	22.19	22.19



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Test Distance 9.5 m
Test Temperature 25.4 °C

Notes

The laboratory has not participated in the selection of samples to be tested. All testing is performed on the understanding that the significance of the report is limited to the extent that the test sample is representative of production units.

Tested in accordance with the applicable sections of publications: IES LM-79-08 (Sec. 12), IES LM-16-93, IES LM-58-13, CIE 13.3:1995, CIE 15:2004, ANSI C78.377:2015, ANSI C82.77-10:2014.

The luminous intensity values, and other derived quantities, contained in this report are based on the absolute data, as measured.

Prorating the performance of the sample for the use of other component combinations (such as lamp / LED / Ballast / driver), or for use in different environmental conditions than that tested, may produce erroneous results.

This report is free of erasures and corrections.

Photometric intensity values are reported using the CIE Gamma coordinate system as defined in CIE publication number 121.

This report may contain data that are not covered by the NVLAP accreditation. Quantities marked with * are not covered.

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